

1113322

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Patch cable, degree of protection: IP20, cable length: 0.3 m, number of positions: 4, 100 Mbps, CAT5, material: PP, connection method: Pierce connection, cable outlet: straight, PROFINET

Your advantages

- · Compact angle
- · Perfect for industrial applications
- · PVC cable for flexible installations
- · Worldwide approval with CE, UL, WEEE, and EAC
- · Secure connection and disconnection with reliable locking clip protection
- Ideal EMC properties, thanks to 360° shielding
- · Simultaneous power transmission with PoE++
- · Resistant to shock and vibrations, thanks to robust molding
- High-speed data transmission with up to 1 Gbps (CAT5)

Commercial data

Item number	1113322
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	ABNABA
Product key	ABNABA
GTIN	4063151036676
Weight per piece (including packing)	47.5 g
Weight per piece (excluding packing)	38.261 g
Customs tariff number	85444210
Country of origin	PL



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Technical data

Product properties

Product type	Data cable preassembled
Sensor type	PROFINET
Number of positions	4
Shielded	yes
Cable outlet	straight
Data management status	
Article revision	02
Insulation characteristics	
Overvoltage category	I

Electrical properties

Rated voltage (III/2)	72 V
Rated current	1.75 A
Insulation resistance	> 1 TΩ
Contact resistance	< 20 mΩ
Transmission characteristics (category)	CAT5
Transmission speed	100 Mbps

Mechanical properties

Mechanical data

Insertion force per signal contact	50.00 N
Extraction force per signal contact	30 N

Material specifications

Flammability rating according to UL 94	V2
Housing material	PP
Contact material	CuSn6
Contact surface material	Ni/Au
Contact carrier material	PC

Dimensions

Width	13.8 mm
Height	33.9 mm
Length	34 mm

Connection data

Connection	technology
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Connection method	Pierce connection



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Conductor connection

Connection method	Pierce connection
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Connector

Connection 1

Туре	Plug straight RJ45
Shielded	yes
Handle color	black
Insertion/withdrawal cycles	≥ 750
Degree of protection	IP20

Connection 2

Туре	Plug bottom RJ45
Shielded	yes
Insertion/withdrawal cycles	≥ 750
Degree of protection	IP20

Cable/line

Cable length	0.30 m
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PROFINET PVC stranded CAT5 [93B]

Dimensional drawing



Cable weight 67 kg/km UL AWM Style 21694 Number of positions 4 Shielded yes Cable type PROFINET PVC stranded CAT5 [93B] Conductor structure 1x4xAWG22/7, SF/TQ Signal runtime 5.3 ns/m Signal speed 0.66 c Conductor structure signal line 7x 0.25 mm AWG signal line 22 Conductor cross section 4x 0.34 mm² Wire diameter incl. insulation 1.55 mm External cable diameter 6.50 mm ±0.2 mm Outer sheath, material PVC		
Number of positions 4 Shielded yes Cable type PROFINET PVC stranded CAT5 [93B] Conductor structure 1x4xAWG22/7, SF/TQ Signal runtime 5.3 ns/m Signal speed 0.66 c Conductor structure signal line 7x 0.25 mm AWG signal line 22 Conductor cross section 4x 0.34 mm² Wire diameter incl. insulation 1.55 mm External cable diameter 6.50 mm ±0.2 mm Outer sheath, material PVC	Cable weight	67 kg/km
Shielded yes Cable type PROFINET PVC stranded CAT5 [93B] Conductor structure 1x4xAWG22/7, SF/TQ Signal runtime 5.3 ns/m Signal speed 0.66 c Conductor structure signal line 7x 0.25 mm AWG signal line 22 Conductor cross section 4x 0.34 mm² Wire diameter incl. insulation 1.55 mm External cable diameter 6.50 mm ±0.2 mm Outer sheath, material PVC	UL AWM Style	21694
Cable type PROFINET PVC stranded CAT5 [93B] Conductor structure 1x4xAWG22/7, SF/TQ Signal runtime 5.3 ns/m Signal speed 0.66 c Conductor structure signal line 7x 0.25 mm AWG signal line 22 Conductor cross section 4x 0.34 mm² Wire diameter incl. insulation 1.55 mm External cable diameter 6.50 mm ±0.2 mm Outer sheath, material PVC	Number of positions	4
Conductor structure 1x4xAWG22/7, SF/TQ Signal runtime 5.3 ns/m Signal speed 0.66 c Conductor structure signal line 7x 0.25 mm AWG signal line 22 Conductor cross section 4x 0.34 mm² Wire diameter incl. insulation 1.55 mm External cable diameter 6.50 mm ±0.2 mm Outer sheath, material PVC	Shielded	yes
Signal runtime5.3 ns/mSignal speed0.66 cConductor structure signal line7x 0.25 mmAWG signal line22Conductor cross section4x 0.34 mm²Wire diameter incl. insulation1.55 mmExternal cable diameter6.50 mm ±0.2 mmOuter sheath, materialPVC	Cable type	PROFINET PVC stranded CAT5 [93B]
Signal speed 0.66 c Conductor structure signal line 7x 0.25 mm AWG signal line 22 Conductor cross section 4x 0.34 mm² Wire diameter incl. insulation 1.55 mm External cable diameter 6.50 mm ±0.2 mm Outer sheath, material PVC	Conductor structure	1x4xAWG22/7, SF/TQ
Conductor structure signal line 7x 0.25 mm AWG signal line 22 Conductor cross section 4x 0.34 mm² Wire diameter incl. insulation 1.55 mm External cable diameter 6.50 mm ±0.2 mm Outer sheath, material PVC	Signal runtime	5.3 ns/m
AWG signal line 22 Conductor cross section 4x 0.34 mm² Wire diameter incl. insulation 1.55 mm External cable diameter 6.50 mm ±0.2 mm Outer sheath, material PVC	Signal speed	0.66 c
Conductor cross section 4x 0.34 mm² Wire diameter incl. insulation 1.55 mm External cable diameter 6.50 mm ±0.2 mm Outer sheath, material PVC	Conductor structure signal line	7x 0.25 mm
Wire diameter incl. insulation 1.55 mm External cable diameter 6.50 mm ±0.2 mm Outer sheath, material PVC	AWG signal line	22
External cable diameter 6.50 mm ±0.2 mm Outer sheath, material PVC	Conductor cross section	4x 0.34 mm²
Outer sheath, material PVC	Wire diameter incl. insulation	1.55 mm
	External cable diameter	6.50 mm ±0.2 mm
External sheath color green RAL 6018	Outer sheath, material	PVC
External shouth, color	External sheath, color	green RAL 6018



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Material wire insulation PE Single wire, color white, yellow, blue, orange Thickness, outer shealth approx. 0.90 mm Overall twist Star quad Optical shield covering 85 % Insulation resistance ≥ 500 MΩ*km Coupling resistance ≤ 120.00 πΩ/m (at 10 MHz) Usop resistance ≤ 120.00 πΩ/m Wave impedance 100 Ω±15 Ω (at 100 MHz) Nominal voltage, cable 600 V Test voltage Core/Core 2000 V (50 Hz, 1 min.) Test voltage Core/Core 2000 v (50 Hz, 1 min.) Test voltage Core/Shield 3 x D Minimum bending radius, fixed installation 3 x D Minimum bending radius, fixed installation 7 x D Smallest bending radius, movable installation 20 mm Smallest bending radius, movable installation 20 mm Near end crosstalk attenuation (NEXT) 60 dB (at 14 MHz) 65 dB (at 16 MHz) 63 dB (at 120 MHz) 65 dB (at 62.5 MHz) 63 dB (at 10 MHz) 65 dB (at 62.5 MHz) 63 dB (at 10 MHz) 63 dB (at 10 MHz) 63 dB (at 10 MHz)	Conductor material	Tin-plated Cu litz wires
Thickness, outer sheath approx 0.90 mm Overall hirst Star quad Optical shield covering 85 % Insulation resistance ≥ 500 MΩ*km Coupling resistance ≤ 20.00 mΩ/m (at 10 MHz) Loop resistance ≤ 120.00 Ω/km Wave impedance 100 Ω ± 15 Ω (at 100 MHz) Nominal voltage, cable 600 V Test voltage Core/Core 2000 v (50 Hz, 1 min.) Test voltage Core/Shield 2000 00 v (50 Hz, 1 min.) Minimum bending radius, fixed installation 3 x D Smallest bending radius, fixed installation 7 x D Smallest bending radius, movable installation 46 mm Near end crosstalk attenuation (NEXT) 46 mm Near end crosstalk attenuation (NEXT) 46 B (at 4 MHz) 70 dB (at 10 MHz) 63 dB (at 20 MHz) 65 dB (at 62.5 MHz) 63 dB (at 20 MHz) 66 dB (at 3.1.25 MHz) 63 dB (at 10 MHz) 87 dB (at 4 MHz) 4 dB (at 16 MHz) 88 dB (at 16 MHz) 63 dB (at 10 MHz) 89 dB (at 10 MHz) 4 dB (at 16 MHz) 14 dB (at 18 MHz) 14 dB (at 1.0 MHz)	Material wire insulation	PE
Overall twist Star quad Optical shield covering 85 % Insulation resistance ≥ 500 MΩ*km Coupling resistance ≤ 120.00 Ω/km Wave impedance 100 Ω ± 15 Ω (at 100 MHz) Nominal voltage, cable 600 V Test voltage Core/Core 2000 V (50 Hz, 1 min.) Test voltage Core/Shield 2000 V (50 Hz, 1 min.) Minimum bending radius, fixed installation 3 x D Minimum bending radius, fixed installation 7 x D Smallest bending radius, fixed installation 40 mm Near end crosstalk attenuation (NEXT) 80 dB (with 1 MHz) 76 dB (at 4 MHz) 70 dB (at 10 MHz) 63 dB (at 20 MHz) 65 dB (at 16 MHz) 63 dB (at 10 MHz) 55 dB (at 62.5 MHz) 50 dB (at 100 MHz) 4 dB (at 10 MHz) Shield attenuation 4 dB (at 10 MHz) 4 dB (at 10 MHz) 63 dB (at 10 MHz) 5 dB (at 2.5 MHz) 61 dB (at 10 MHz) 6 dB (at 10 MHz) 61 dB (at 10 MHz) 6 dB (at 10 MHz) 61 dB (at 10 MHz) 6 dB (at 10 MHz) 61 dB (at 10 MHz) 6 dB (at	Single wire, color	white, yellow, blue, orange
Optical shield covering 85 % Insulation resistance ≥ 500 MΩ*m Coupling resistance ≤ 20.00 mΩ/m (at 10 MHz) Loop resistance ≤ 120.00 Ω/km Wave impedance 100 Ω ±15 Ω (at 100 MHz) Nominal voltage, cable 600 V Test voltage Core/Core 2000 V (50 Hz, 1 min.) Test voltage Core/Shield 2000.00 V (50 Hz, 1 min.) Minimum bending radius, fixed installation 3 x D Minimum bending radius, fixed installation 20 mm Smallest bending radius, fixed installation 20 mm Smallest bending radius, fixed installation 46 mm Naar end crosstalk attenuation (NEXT) 80 dB (with 1 MHz) 76 dB (at 1 6 MHz) 65 dB (at 16 MHz) 65 dB (at 16 MHz) 65 dB (at 10 MHz) 65 dB (at 10 MHz) 65 dB (at 10 MHz) Shield attenuation 21 dB (with 1 MHz) Shield attenuation 4 dB (at 4 MHz) Shield attenuation 21 dB (with 1 MHz) 4 dB (at 20 MHz) 65 dB (at 20 MHz) 6 dB (at 10 MHz) 65 dB (at 20 MHz) 6 dB (at 10 MHz) 65 dB (at 20 MHz)	Thickness, outer sheath	approx. 0.90 mm
Insulation resistance ≥ 500 MΩ′km Coupling resistance ≤ 20.00 mΩ/m (at 10 MHz) Loop resistance ≤ 120.00 Ω/km Wave impedance 100 Ω±15 Ω (at 100 MHz) Nominal voltage, cable 600 V Test voltage Core/Core 2000 v (50 Hz, 1 min.) Test voltage Core/Shield 2000.00 V (50 Hz, 1 min.) Minimum bending radius, fixed installation 3 x D Smallest bending radius, fixed installation 7 x D Smallest bending radius, movable installation 46 mm Near end crosstalk attenuation (NEXT) 80 dB (with 1 MHz) 76 dB (at 4 MHz) 70 dB (at 100 MHz) 65 dB (at 20 MHz) 65 dB (at 20 MHz) 65 dB (at 20 MHz) 65 dB (at 20 MHz) 55 dB (at 62.5 MHz) 65 dB (at 100 MHz) Shield attenuation 2.1 dB (with 1 MHz) A dB (at 100 MHz) 8 dB (at 100 MHz) Shield attenuation 4 dB (at 4 MHz) 11.4 dB (at 31.25 MHz) 65 dB (at 25 MHz) 65 dB (at 100 MHz) 8 dB (at 100 MHz) 8 dB (at 100 MHz) 8 dB (at 100 MHz) 11.4 dB (at 31.25 MHz) 16.5 dB (at 62.	Overall twist	Star quad
Coupling resistance ≤ 20.00 mΩ/m (at 10 MHz) Loop resistance ≤ 120.00 Ω/km Wave impedance 100 Ω ±15 Ω (at 100 MHz) Nominal voltage, cable 600 V Test voltage Core/Core 2000 v (50 Hz, 1 min.) Test voltage Core/Shield 2000,00 V (50 Hz, 1 min.) Minimum bending radius, fixed installation 3 x D Minimum bending radius, fixed installation 20 mm Smallest bending radius, movable installation 20 mm Smallest bending radius, movable installation 46 mm Near end crosstalk attenuation (NEXT) 80 dB (with 1 MHz) 76 dB (at 1 MHz) 76 dB (at 1 MHz) 63 dB (at 10 MHz) 65 dB (at 12 MHz) 60 dB (at 31.25 MHz) 55 dB (at 62.5 MHz) 55 dB (at 62.5 MHz) 63 dB (at 100 MHz) Shield attenuation 4 dB (at 4 MHz) 4 dB (at 4 MHz) 4 dB (at 4 MHz) 55 dB (at 62.5 MHz) 60 dB (at 100 MHz) Shield attenuation 4 dB (at 100 MHz) 4 dB (at 100 MHz) 4 dB (at 4 MHz) 6.3 dB (at 100 MHz) 4 dB (at 10 MHz) 11.4 dB (at 3.125 MHz) 4 dB	Optical shield covering	85 %
Loop resistance ≤ 120.00 Ω/km Wave impedance 100 Ω ±15 Ω (at 100 MHz) Nominal voltage, cable 600 ∨ Test voltage Core/Core 2000 ∨ (50 Hz, 1 min.) Test voltage Core/Shield 2000 ∨ (50 Hz, 1 min.) Minimum bending radius, fixed installation 3 x D Minimum bending radius, fixed installation 20 mm Smallest bending radius, fixed installation 46 mm Near end crosstalk attenuation (NEXT) 80 dB (with 1 MHz) 76 dB (at 4 MHz) 70 dB (at 10 MHz) 65 dB (at 16 MHz) 65 dB (at 16 MHz) 65 dB (at 16 MHz) 65 dB (at 100 MHz) Shield attenuation 2.1 dB (with 1 MHz) Shield attenuation 4 dB (at 4 MHz) 4 dB (at 62.5 MHz) 63 dB (at 100 MHz) Shield attenuation 4 dB (at 16 MHz) 4 dB (at 16 MHz) 63 dB (at 100 MHz) Shield attenuation 21 dB (at 100 MHz) Flame resistance at (according to UL 1685 (CSA FT 4) Resistance to oil dccccroding to UL 1685 (CSA FT 4) Resistance to oil UV resistant (according to UL 1581, Section 1200) Ambient	Insulation resistance	≥ 500 MΩ*km
Wave impedance 100 Ω ±15 Ω (at 100 MHz) Nominal voltage, cable 600 V Test voltage Core/Core 2000 V (50 Hz, 1 min.) Test voltage Core/Shield 2000.00 V (50 Hz, 1 min.) Minimum bending radius, fixed installation 3 x D Minimum bending radius, fixed installation 20 mm Smallest bending radius, fixed installation 46 mm Near end crosstalk attenuation (NEXT) 80 dB (with 1 MHz) 70 dB (at 4 MHz) 70 dB (at 100 MHz) 65 dB (at 4 MHz) 65 dB (at 20 MHz) 60 dB (at 31.25 MHz) 55 dB (at 62.5 MHz) 55 dB (at 62.5 MHz) 63 dB (at 100 MHz) Shield attenuation 21 dB (with 1 MHz) 4 dB (at 4 MHz) 63 dB (at 100 MHz) 5 dB (at 20 MHz) 63 dB (at 100 MHz) 8 dB (at 16 MHz) 9 dB (at 20 MHz) 11 d dB (at 31.25 MHz) 11.4 dB (at 31.25 MHz) 12 dB (at 100 MHz) 11.4 dB (at 31.25 MHz) 12 dB (at 100 MHz) 11.4 dB (at 31.25 MHz) 12 dB (at 100 MHz) 11.4 dB (at 31.25 MHz) 12 dB (at 100 MHz) 11.4 dB (at 31.25 MHz) 12 dB (at 100 MHz)	Coupling resistance	≤ 20.00 mΩ/m (at 10 MHz)
Nominal voltage, cable 600 V Test voltage Core/Core 2000 V (50 Hz, 1 min.) Test voltage Core/Shield 2000.00 V (50 Hz, 1 min.) Minimum bending radius, fixed installation 3 x D Minimum bending radius, fixexible installation 20 mm Smallest bending radius, fixed installation 46 mm Near end crosstalk attenuation (NEXT) 80 dB (with 1 MHz) 76 dB (at 4 MHz) 70 dB (at 10 MHz) 65 dB (at 20 MHz) 65 dB (at 20 MHz) 65 dB (at 62.5 MHz) 50 dB (at 100 MHz) Shield attenuation 2.1 dB (with 1 MHz) 4 dB (at 4 MHz) 6.3 dB (at 100 MHz) Shield attenuation 4 dB (at 4 MHz) 6.3 dB (at 100 MHz) 8 dB (at 16 MHz) 9 dB (at 20 MHz) 11.4 dB (at 31.25 MHz) 11.4 dB (at 31.25 MHz) 11.4 dB (at 31.25 MHz) 11.4 dB (at 31.25 MHz) 11.4 dB (at 31.25 MHz) 11.3 dB (at 10 MHz) 11.4 dB (at 31.25 MHz) 12.3 dB (at 10 MHz) 11.4 dB (at 31.25 MHz) 13.3 dB (at 10 MHz) 11.4 dB (at 31.25 MHz) 13.4 dB (at 10 MHz) 11.4 dB (at 31.25 MHz) 13.3 dB (at 10	Loop resistance	≤ 120.00 Ω/km
Test voltage Core/Core 2000 V (50 Hz, 1 min.) Test voltage Core/Shield 2000.00 V (50 Hz, 1 min.) Minimum bending radius, fixed installation 3 x D Smallest bending radius, fixed installation 20 mm Smallest bending radius, movable installation 46 mm Near end crosstalk attenuation (NEXT) 80 dB (with 1 MHz) 70 dB (at 10 MHz) 65 dB (at 6 MHz) 65 dB (at 16 MHz) 65 dB (at 16 MHz) 65 dB (at 120 MHz) 65 dB (at 62.5 MHz) 55 dB (at 62.5 MHz) 50 dB (at 100 MHz) Shield attenuation 2.1 dB (with 1 MHz) 4 dB (at 4 MHz) 4 dB (at 4 MHz) 50 dB (at 100 MHz) 4 dB (at 10 MHz) Shield attenuation 2.1 dB (with 1 MHz) 4 dB (at 10 MHz) 4 dB (at 10 MHz) 11.4 dB (at 31.25 MHz) 6.3 dB (at 10 MHz) 8 dB (at 16 MHz) 9 dB (at 20 MHz) 11.4 dB (at 31.25 MHz) 11.4 dB (at 31.25 MHz) 16.5 dB (at 62.5 MHz) 21.3 dB (at 100 MHz) Flame resistance according to UL 1685 (CSA FT 4) Resistance to oil Resistant to oil to a limited extent Other r	Wave impedance	100 Ω ±15 Ω (at 100 MHz)
Test voltage Core/Shield 2000.00 V (50 Hz, 1 min.) Minimum bending radius, fixed installation 3 x D Smallest bending radius, fixed installation 20 mm Smallest bending radius, movable installation 46 mm Near end crosstalk attenuation (NEXT) 80 dB (with 1 MHz) 70 dB (at 4 MHz) 70 dB (at 10 MHz) 65 dB (at 16 MHz) 65 dB (at 120 MHz) 60 dB (at 31.25 MHz) 60 dB (at 31.25 MHz) 55 dB (at 62.5 MHz) 50 dB (at 100 MHz) Shield attenuation 2.1 dB (with 1 MHz) 4 dB (at 4 MHz) 6.3 dB (at 100 MHz) Shield attenuation 4 dB (at 4 MHz) 6.3 dB (at 10 MHz) 6.3 dB (at 10 MHz) 4 dB (at 4 MHz) 6.3 dB (at 10 MHz) 4 dB (at 4 MHz) 6.3 dB (at 10 MHz) 11.4 dB (at 31.25 MHz) 11.4 dB (at 31.25 MHz) 16.5 dB (at 62.5 MHz) 11.4 dB (at 31.25 MHz) 16.5 dB (at 60.5 MHz) 21.3 dB (at 100 MHz) Flame resistance according to UL 1685 (CSA FT 4) Resistance to oil Resistant to oil to a limited extent Other resistance UV resistant (according to UL 1581, Section 1200) </td <td>Nominal voltage, cable</td> <td>600 V</td>	Nominal voltage, cable	600 V
Minimum bending radius, fixed installation 3 x D Minimum bending radius, fixed installation 20 mm Smallest bending radius, fixed installation 46 mm Near end crosstalk attenuation (NEXT) 80 dB (with 1 MHz) 7 d B (at 4 MHz) 70 dB (at 10 MHz) 65 dB (at 16 MHz) 63 dB (at 20 MHz) 60 dB (at 31.25 MHz) 55 dB (at 62.5 MHz) 50 dB (at 100 MHz) 50 dB (at 100 MHz) Shield attenuation 2.1 dB (with 1 MHz) 4 dB (at 4 MHz) 6.3 dB (at 100 MHz) 8 dB (at 10 MHz) 8 dB (at 10 MHz) 8 dB (at 10 MHz) 8 dB (at 10 MHz) 11.4 dB (at 31.25 MHz) 11.4 dB (at 31.25 MHz) 9 dB (at 20 MHz) 11.4 dB (at 31.25 MHz) 11.4 dB (at 31.25 MHz) 11.5 dB (at 62.5 MHz) 15.5 dB (at 62.5 MHz) 11.5 dB (at 62.5 MHz) Flame resistance according to UL 1685 (CSA FT 4) Resistance to oil Resistant to oil to a limited extent Other resistance UV resistant (according to UL 1581, Section 1200) Ambient temperature (operation) 40 °C 70 °C (cable, fixed installation) 40 °C 70 °C (cable, fixed installation)	Test voltage Core/Core	2000 V (50 Hz, 1 min.)
Minimum bending radius, flexible installation 20 mm Smallest bending radius, fixed installation 46 mm Near end crosstalk attenuation (NEXT) 80 dB (with 1 MHz) 76 dB (at 4 MHz) 76 dB (at 10 MHz) 65 dB (at 16 MHz) 65 dB (at 16 MHz) 63 dB (at 20 MHz) 60 dB (at 31.25 MHz) 55 dB (at 62.5 MHz) 55 dB (at 62.5 MHz) 50 dB (at 100 MHz) 4 dB (at 4 MHz) 4 dB (at 4 MHz) 63 dB (at 100 MHz) 8 dB (at 16 MHz) 9 dB (at 20 MHz) 8 dB (at 16 MHz) 9 dB (at 20 MHz) 11.4 dB (at 31.25 MHz) 11.4 dB (at 31.25 MHz) 12.1 dB (at 100 MHz) 11.4 dB (at 31.25 MHz) 12.1 dB (at 100 MHz) 11.4 dB (at 31.25 MHz) 12.1 dB (at 100 MHz) 11.4 dB (at 31.25 MHz) 12.1 dB (at 100 MHz) 11.4 dB (at 31.25 MHz) 12.1 dB (at 100 MHz) 11.5 dB (at 62.5 MHz) 12.1 dB (at 10 MHz) 11.4 dB (at 31.25 MHz) 12.1 dB (at 10 MHz) 11.4 dB (at 31.25 MHz) 12.1 dB (at 10 MHz) 11.5 dB (at 62.5 MHz) 12.1 dB (at 10 MHz) 11.5 dB (at 62.5 MHz) 12.1 dB (at 10 MHz)	Test voltage Core/Shield	2000.00 V (50 Hz, 1 min.)
Smallest bending radius, fixed installation 20 mm Smallest bending radius, movable installation 46 mm Near end crosstalk attenuation (NEXT) 80 dB (with 1 MHz) 76 dB (at 4 MHz) 70 dB (at 10 MHz) 65 dB (at 16 MHz) 63 dB (at 20 MHz) 60 dB (at 31.25 MHz) 55 dB (at 62.5 MHz) 50 dB (at 100 MHz) 50 dB (at 100 MHz) Shield attenuation 2.1 dB (with 1 MHz) 4 dB (at 4 MHz) 6.3 dB (at 10 MHz) 8 dB (at 16 MHz) 9 dB (at 20 MHz) 11.4 dB (at 31.25 MHz) 11.4 dB (at 31.25 MHz) 11.4 dB (at 31.25 MHz) 11.4 dB (at 31.25 MHz) 11.4 dB (at 31.25 MHz) 11.5 dB (at 62.5 MHz) 21.3 dB (at 100 MHz) 11.5 dB (at 62.5 MHz) Flame resistance according to UL 1685 (CSA FT 4) Resistance to oil Resistant to oil to a limited extent Other resistance UV resistant (according to UL 1581, Section 1200) Ambient temperature (operation) 40 °C 70 °C (cable, fixed installation) 40 °C 70 °C (Cable, flexible installation)	Minimum bending radius, fixed installation	3 x D
Smallest bending radius, movable installation 46 mm Near end crosstalk attenuation (NEXT) 80 dB (with 1 MHz) 76 dB (at 4 MHz) 70 dB (at 10 MHz) 65 dB (at 16 MHz) 63 dB (at 20 MHz) 60 dB (at 31.25 MHz) 55 dB (at 62.5 MHz) 50 dB (at 100 MHz) 50 dB (at 100 MHz) Shield attenuation 2.1 dB (with 1 MHz) 4 dB (at 4 MHz) 6.3 dB (at 10 MHz) 8 dB (at 16 MHz) 9 dB (at 20 MHz) 11.4 dB (at 31.25 MHz) 11.4 dB (at 31.25 MHz) 11.4 dB (at 31.25 MHz) 11.4 dB (at 31.25 MHz) 11.4 dB (at 31.25 MHz) 21.3 dB (at 100 MHz) Flame resistance according to UL 1685 (CSA FT 4) Resistance to oil Resistant to oil to a limited extent Other resistance UV resistant (according to UL 1581, Section 1200) Ambient temperature (operation) -40 °C 70 °C (cable, fixed installation) -40 °C 70 °C (Cable, flexible installation)	Minimum bending radius, flexible installation	7 x D
Near end crosstalk attenuation (NEXT) 80 dB (with 1 MHz) 76 dB (at 4 MHz) 76 dB (at 4 MHz) 70 dB (at 10 MHz) 65 dB (at 16 MHz) 63 dB (at 20 MHz) 60 dB (at 31.25 MHz) 55 dB (at 62.5 MHz) 50 dB (at 100 MHz) Shield attenuation 2.1 dB (with 1 MHz) 4 dB (at 4 MHz) 4 dB (at 4 MHz) 6.3 dB (at 10 MHz) 8 dB (at 16 MHz) 9 dB (at 20 MHz) 9 dB (at 20 MHz) 11.4 dB (at 31.25 MHz) 11.4 dB (at 31.25 MHz) 11.4 dB (at 31.25 MHz) 11.4 dB (at 31.25 MHz) 12.3 dB (at 100 MHz) 21.3 dB (at 100 MHz) Resistance to oil Resistant to oil to a limited extent Other resistance UV resistant (according to UL 1581, Section 1200) Ambient temperature (operation) 40 °C 70 °C (cable, fixed installation) 40 °C 70 °C (cable, fixed installation)	Smallest bending radius, fixed installation	20 mm
76 dB (at 4 MHz) 70 dB (at 10 MHz) 65 dB (at 16 MHz) 63 dB (at 20 MHz) 60 dB (at 31.25 MHz) 55 dB (at 62.5 MHz) 50 dB (at 100 MHz) Shield attenuation 2.1 dB (with 1 MHz) 4 dB (at 4 MHz) 6.3 dB (at 10 MHz) 8 dB (at 16 MHz) 9 dB (at 20 MHz) 11.4 dB (at 31.25 MHz) 11.4 dB (at 31.25 MHz) 16.5 dB (at 62.5 MHz) 21.3 dB (at 100 MHz) Flame resistance according to UL 1685 (CSA FT 4) Resistance to oil Resistant to oil to a limited extent Other resistance UV resistant (according to UL 1581, Section 1200) Ambient temperature (operation) -40 °C 70 °C (cable, fixed installation) -40 °C 70 °C (cable, flexible installation)	Smallest bending radius, movable installation	46 mm
To dB (at 10 MHz)	Near end crosstalk attenuation (NEXT)	80 dB (with 1 MHz)
65 dB (at 16 MHz) 63 dB (at 20 MHz) 60 dB (at 31.25 MHz) 55 dB (at 62.5 MHz) 50 dB (at 100 MHz) 6.3 dB (at 10 MHz) 8 dB (at 16 MHz) 9 dB (at 20 MHz) 11.4 dB (at 31.25 MHz) 11.4 dB (at 31.25 MHz) 11.4 dB (at 31.25 MHz) 16.5 dB (at 62.5 MHz) 21.3 dB (at 100 MHz) 7 dB (at 30 MHz) 8 dB (at 160 MHz) 10 dB (at 31.25 MHz)		76 dB (at 4 MHz)
63 dB (at 20 MHz)		70 dB (at 10 MHz)
60 dB (at 31.25 MHz) 55 dB (at 62.5 MHz) 50 dB (at 100 MHz) Shield attenuation 2.1 dB (with 1 MHz) 4 dB (at 4 MHz) 6.3 dB (at 10 MHz) 8 dB (at 10 MHz) 9 dB (at 20 MHz) 11.4 dB (at 31.25 MHz) 11.4 dB (at 31.25 MHz) 11.4 dB (at 31.25 MHz) 12.3 dB (at 100 MHz) 12.3 dB (at 100 MHz) 12.3 dB (at 100 MHz) 13.4 dB (at 31.25 MHz) 14.5 dB (at 62.5 MHz) 15.5 dB (at 62.5 MHz) 16.5 dB (at 62.5 MHz) 17.5 dB (at 100 MHz) 18.6 dB (at 31.25 MHz) 19.6 dB (at 31.25		65 dB (at 16 MHz)
55 dB (at 62.5 MHz) 50 dB (at 100 MHz) Shield attenuation 2.1 dB (with 1 MHz) 4 dB (at 4 MHz) 6.3 dB (at 10 MHz) 8 dB (at 16 MHz) 9 dB (at 20 MHz) 11.4 dB (at 31.25 MHz) 16.5 dB (at 62.5 MHz) 21.3 dB (at 100 MHz) Flame resistance according to UL 1685 (CSA FT 4) Resistance to oil Resistant to oil to a limited extent Other resistance UV resistant (according to UL 1581, Section 1200) Ambient temperature (operation) -40 °C 70 °C (cable, fixed installation) -40 °C 70 °C (Cable, flexible installation)		63 dB (at 20 MHz)
Shield attenuation 50 dB (at 100 MHz) 4 dB (at 4 MHz) 4 dB (at 4 MHz) 6.3 dB (at 10 MHz) 8 dB (at 16 MHz) 9 dB (at 20 MHz) 11.4 dB (at 31.25 MHz) 16.5 dB (at 62.5 MHz) 16.5 dB (at 62.5 MHz) Flame resistance according to UL 1685 (CSA FT 4) Resistance to oil Resistant to oil to a limited extent Other resistance UV resistant (according to UL 1581, Section 1200) Ambient temperature (operation) -40 °C 70 °C (cable, fixed installation) -40 °C 70 °C (Cable, flexible installation)		60 dB (at 31.25 MHz)
Shield attenuation 2.1 dB (with 1 MHz) 4 dB (at 4 MHz) 6.3 dB (at 10 MHz) 8 dB (at 16 MHz) 9 dB (at 20 MHz) 11.4 dB (at 31.25 MHz) 16.5 dB (at 62.5 MHz) 21.3 dB (at 100 MHz) Resistance to oil Resistant to oil to a limited extent Other resistance UV resistant (according to UL 1581, Section 1200) Ambient temperature (operation) -40 °C 70 °C (cable, fixed installation) -40 °C 70 °C (Cable, flexible installation)		55 dB (at 62.5 MHz)
4 dB (at 4 MHz)		50 dB (at 100 MHz)
6.3 dB (at 10 MHz) 8 dB (at 16 MHz) 9 dB (at 20 MHz) 11.4 dB (at 31.25 MHz) 16.5 dB (at 62.5 MHz) 21.3 dB (at 100 MHz) Flame resistance according to UL 1685 (CSA FT 4) Resistance to oil Resistant to oil to a limited extent Other resistance UV resistant (according to UL 1581, Section 1200) Ambient temperature (operation) -40 °C 70 °C (Cable, fixed installation) -40 °C 70 °C (Cable, flexible installation)	Shield attenuation	2.1 dB (with 1 MHz)
8 dB (at 16 MHz) 9 dB (at 20 MHz) 11.4 dB (at 31.25 MHz) 16.5 dB (at 62.5 MHz) 21.3 dB (at 100 MHz) Flame resistance according to UL 1685 (CSA FT 4) Resistance to oil Resistant to oil to a limited extent Other resistance UV resistant (according to UL 1581, Section 1200) Ambient temperature (operation) -40 °C 70 °C (cable, fixed installation) -40 °C 70 °C (Cable, flexible installation)		4 dB (at 4 MHz)
9 dB (at 20 MHz) 11.4 dB (at 31.25 MHz) 16.5 dB (at 62.5 MHz) 21.3 dB (at 100 MHz) Flame resistance according to UL 1685 (CSA FT 4) Resistance to oil Resistant to oil to a limited extent Other resistance UV resistant (according to UL 1581, Section 1200) Ambient temperature (operation) -40 °C 70 °C (Cable, fixed installation) -40 °C 70 °C (Cable, flexible installation)		6.3 dB (at 10 MHz)
11.4 dB (at 31.25 MHz) 16.5 dB (at 62.5 MHz) 21.3 dB (at 100 MHz) Flame resistance according to UL 1685 (CSA FT 4) Resistance to oil Resistant to oil to a limited extent Other resistance UV resistant (according to UL 1581, Section 1200) Ambient temperature (operation) -40 °C 70 °C (Cable, fixed installation) -40 °C 70 °C (Cable, flexible installation)		8 dB (at 16 MHz)
16.5 dB (at 62.5 MHz) 21.3 dB (at 100 MHz) Flame resistance according to UL 1685 (CSA FT 4) Resistance to oil Resistant to oil to a limited extent Other resistance UV resistant (according to UL 1581, Section 1200) Ambient temperature (operation) -40 °C 70 °C (Cable, fixed installation) -40 °C 70 °C (Cable, flexible installation)		9 dB (at 20 MHz)
21.3 dB (at 100 MHz) Flame resistance according to UL 1685 (CSA FT 4) Resistance to oil Resistant to oil to a limited extent Other resistance UV resistant (according to UL 1581, Section 1200) Ambient temperature (operation) -40 °C 70 °C (Cable, fixed installation) -40 °C 70 °C (Cable, flexible installation)		11.4 dB (at 31.25 MHz)
Flame resistance according to UL 1685 (CSA FT 4) Resistance to oil Resistant to oil to a limited extent Other resistance UV resistant (according to UL 1581, Section 1200) Ambient temperature (operation) -40 °C 70 °C (cable, fixed installation) -40 °C 70 °C (Cable, flexible installation)		16.5 dB (at 62.5 MHz)
Resistance to oil Other resistance UV resistant (according to UL 1581, Section 1200) Ambient temperature (operation) -40 °C 70 °C (cable, fixed installation) -40 °C 70 °C (Cable, flexible installation)		21.3 dB (at 100 MHz)
Other resistance UV resistant (according to UL 1581, Section 1200) -40 °C 70 °C (cable, fixed installation) -40 °C 70 °C (Cable, flexible installation)	Flame resistance	according to UL 1685 (CSA FT 4)
Ambient temperature (operation) -40 °C 70 °C (cable, fixed installation) -40 °C 70 °C (Cable, flexible installation)	Resistance to oil	Resistant to oil to a limited extent
-40 °C 70 °C (Cable, flexible installation)	Other resistance	UV resistant (according to UL 1581, Section 1200)
	Ambient temperature (operation)	-40 °C 70 °C (cable, fixed installation)
Ambient temperature (installation) -20 °C 60 °C		-40 °C 70 °C (Cable, flexible installation)
	Ambient temperature (installation)	-20 °C 60 °C

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20



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	Ambient temperature (operation)	-40 °C 85 °C (RJ45 connector)
	Ambient temperature (storage/transport)	-40 °C 85 °C (RJ45 connector)
Standards and regulations		
Ole	<u> </u>	



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Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27060308
ECLASS-12.0	27060308
ECLASS-13.0	27060307
ETIM	
ETIM 9.0	EC001855
UNSPSC	

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Environmental product compliance

EU RoHS

Yes, No exemptions
EFUP-E
No hazardous substances above the limits
No substance above 0.1 wt%

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